

1   **ABSTRACT OF THE DISCLOSURE**

2           An automatic diaphragm assembly for a lens of a digital camera includes  
3    a body, an actuating device and an aperture adjustment mechanism. The body  
4    has a diaphragm chamber with a bottom and a distal through hole defined  
5    completely through the bottom. The aperture adjustment mechanism is slidably  
6    mounted in the diaphragm chamber and includes two reciprocal blades. Each of  
7    the reciprocal blades has a V-shaped inward edge facing each other to define an  
8    aperture aligned with the distal through hole. The actuating device actuates the  
9    reciprocal blades to continuously change a size of the aperture by moving the  
10   reciprocal blades to close or open the aperture defined by the inward edges.  
11   Therefore, the diaphragm assembly allows continuous adjustment of the aperture  
12   without any stops to provide a proper aperture for a correct exposure.